

**Perdido Key, FL  
Feasibility Study for Beach Restoration**

**Sand Search Investigation**

**Sediment Vibracore Core Boring Logs, Photographs,  
and Grain Size Distribution Analyses**

January 2006

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Prepared for:

Escambia County, FL  
&  
Florida Department of Environmental Protection  
Bureau of Beaches and Coastal Systems

Prepared By:

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Sediment Vibracores Collected By:

Alpine Ocean Seismic Survey, Inc.  
Norwood, NJ

Core Boring Logs and Analyses Prepared By:

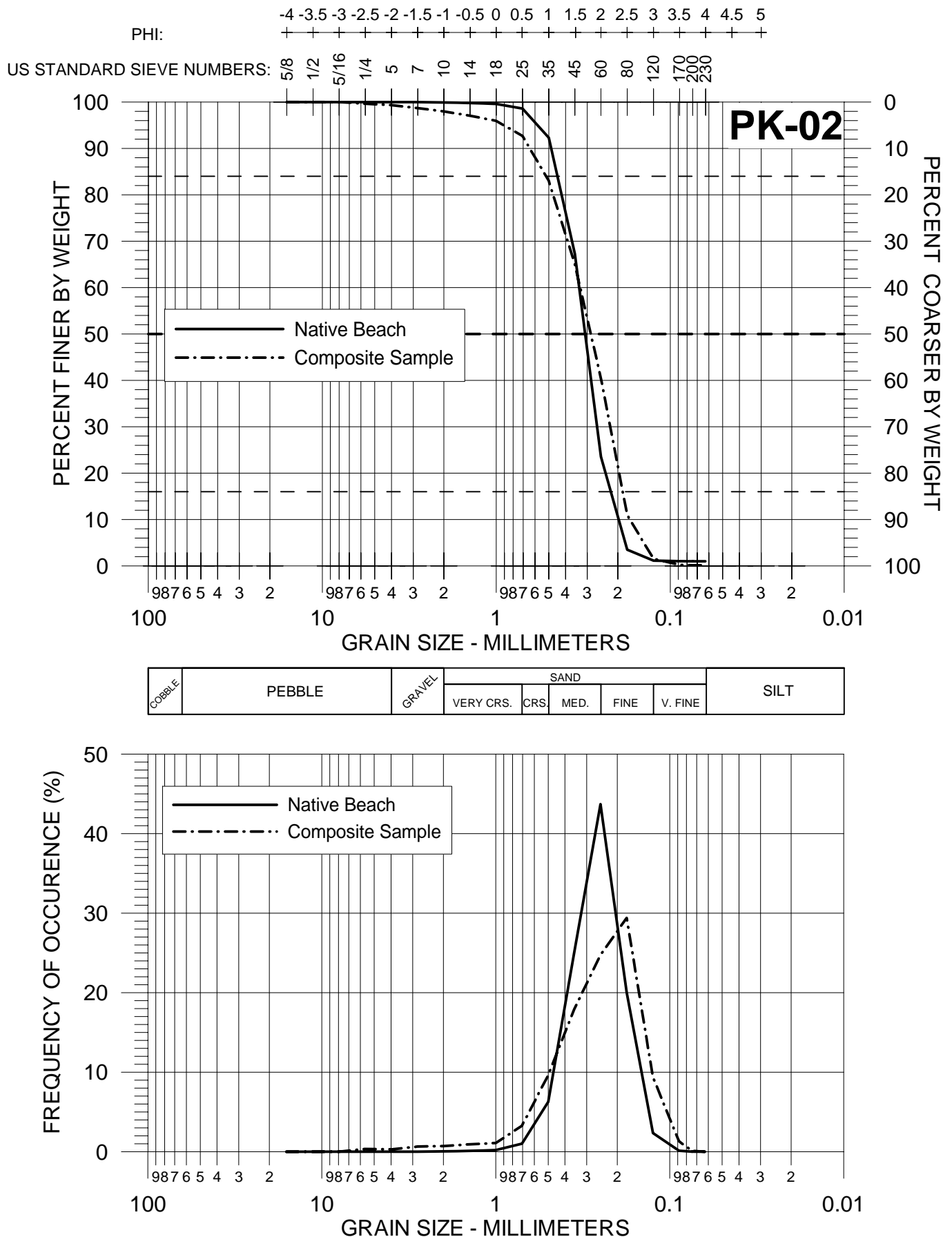
Dr. Gary Zarillo  
Scientific Environmental Applications, Inc.  
Melbourne, FL

# Boring Designation PK-02

<b>DRILLING LOG</b>		<b>DIVISION</b>	<b>INSTALLATION</b>	<b>SHEET 1</b> <b>OF 1 SHEETS</b>
<b>1. PROJECT</b> Geotechnical Sand Search for Beach Restoration Perdido Key, FL - Escambia County			<b>9. SIZE AND TYPE OF BIT</b> 4.0 In.	
<b>2. BORING DESIGNATION</b> PK-02			<b>10. COORDINATE SYSTEM/DATUM</b> Florida State Plane North	
<b>LOCATION COORDINATES</b> X = 1,023,044 Y = 471,014			<b>HORIZONTAL</b> NAD 1983	
<b>3. DRILLING AGENCY</b> Olsen Associates, Inc			<b>11. MANUFACTURER'S DESIGNATION OF DRILL</b> Pneumatic	
<b>CONTRACTOR FILE NO.</b>			<input type="checkbox"/> <b>AUTO HAMMER</b> <input type="checkbox"/> <b>MANUAL HAMMER</b>	
<b>4. NAME OF DRILLER</b> Alpine Ocean Seismic Survey Inc			<b>12. TOTAL SAMPLES</b> 1	
<b>5. DIRECTION OF BORING</b> <input checked="" type="checkbox"/> <b>VERTICAL</b> <input type="checkbox"/> <b>INCLINED</b>			<b>13. TOTAL NUMBER CORE BOXES</b> 2	
<b>DEG. FROM VERTICAL</b>			<b>14. ELEVATION GROUND WATER</b>	
<b>BEARING</b>			<b>15. DATE BORING</b> 05-07-05	
<b>6. THICKNESS OF OVERBURDEN</b> 0.0 Ft.			<b>16. ELEVATION TOP OF BORING</b> -29.1 Ft.	
<b>7. DEPTH DRILLED INTO ROCK</b> 0.0 Ft.			<b>17. TOTAL RECOVERY FOR BORING</b> 13 Ft.	
<b>8. TOTAL DEPTH OF BORING</b> 18.5 Ft.			<b>18. SIGNATURE AND TITLE OF INSPECTOR</b> Gary Zarillo, PG SEA, Inc	

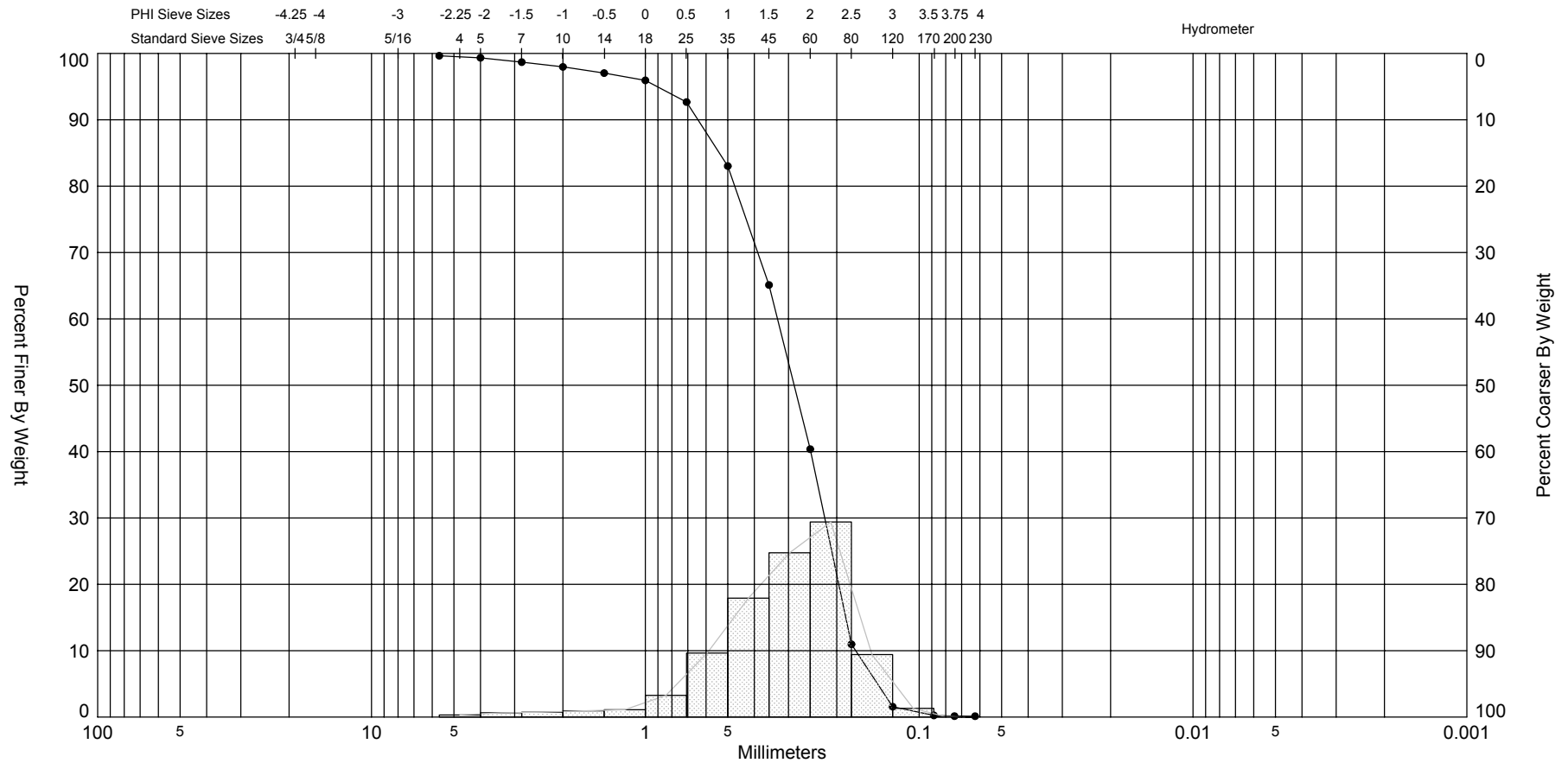
ELEV. (ft)	DEPTH (ft)	LEGEND	CLASSIFICATION OF MATERIALS Depths and elevations based on measured values	% REC.	BOX OR SAMPLE	REMARKS
-29.1	0.0					
-30.4	1.3		White to very light tan fine quartz sand, few gray to white shell fragments in fine gravel range. (10YR-8.5/2). (SP).			
-32.4	3.3		Light gray fine quartz sand, some gray silt in collapsed burrows, polychaete tubes, trace of shell fragments and whole shells in fine to medium gravel range, white (10YR-8/1), (SP).			
-34.3	5.2		Gray fine quartz sand, trace of gray silt inclusions, scattered gray to tan shell fragments in fine to medium gravel range, (10YR-7.5/1). (SP).			
-42.1	13.0		Gray clay and some silt, large whole shells in coarse gravel to cobble range, gray (10YR-6/1). (CL).			
			End of Boring			

FLORIDA DEP ROSS PERDIDO KEY.GPJ FL DEP ROSS.GDT 9/30/05



**Figure A-2:** Comparison of borrow area (PK-02) and native beach grain size distributions, Perdido Key, FL.

SIEVE ANALYSIS: PERDIDO KEY, GPJ, FL DEP ROSS.GDT 9/28/05



Sample	Symbol	Elev. (ft)	USCS	% Fines	% Organics	% Carbonates	Median	Mean	Skew	Kurt	Sort	Sample Information	
PK-02 #Comp	—●—	-41.1	SP	#200 - 0.14 #230 - 0.13		8.53	1.81	1.66	-1.28	6.09	0.84	Project Name:	Escambia County, FL Sand Search 05
Comments:												Analysis Date:	08-12-05
Depths and elevations based on measured values												Analyzed By:	SEA Inc.
						Scientific Environmental Applications 5575 Willoughby Drive Melbourne, FL 32934 ph 321 254-2708 fax 321 254-2708						Easting (X, ft):	1,023,044
												Northing (Y, ft):	471,014
												Horizontal System:	NAD 1983
												Vertical System:	NAVD 88

